	GROUP <b>ENG</b>	MODEL <b>2015MY Soul (PS) w/1.6L engine</b>
	NUMBER <b>156</b>	DATE <b>August 2016</b>
<b>TECHNICAL SERVICE BULLETIN</b>		
<b>SUBJECT: ECM UPGRADE – MIL ON WITH DTC P0128</b>		

This bulletin provides information related to the ECM software upgrade for some 2015MY Soul (PS) vehicles, produced from November 18, 2014 through May 31, 2015, which may experience a malfunction indicator lamp (MIL) illuminated with the Electronic Control Module (ECM) system-related DTC: P0128. To correct this condition, the ECM should be reprogrammed using the GDS/KDS download as described in this bulletin. Before performing this procedure, verify the VIN falls within the production ranges by consulting the table on page 6. For confirmation that the latest reflash has been done to a vehicle you are working on, verify ROM ID using the tables in this TSB.

**P0128:** Thermostat (Temp. below Thermostat Regulating Temp.)



Global Diagnostic System (GDS)



Kia Diagnostic System (KDS)

**\* NOTICE**

**DO NOT** replace any parts related to the DTCs mentioned above unless proven to be the cause for the DTC **AFTER** the reflash has been performed. First perform the reflash as described in this bulletin, and verify that no DTC(s) will re-set. Should a DTC re-set after the reflash, diagnose according to KGIS. Parts replacement in conjunction with this TSB may be subject to Mandatory Parts Return and returned parts will be tested by KMA. Unnecessarily replaced parts will be subject to chargeback.

File Under: <Engine>

- 
- Circulate To:     General Manager     Service Manager     Parts Manager
- Service Advisor(s)     Technician(s)     Body Shop Manager     Fleet Repair

**ECM Upgrade Procedure:**

To correct this condition, the ECM should be reprogrammed using the GDS/KDS download, as described in this bulletin.

**UPGRADE EVENT NAME**

286.PS 1.6GDI DTC(P0128) Logic Improvement

**\* NOTICE**

- A fully charged battery is necessary before ECM upgrade can take place. It is recommended that the Midtronics GR8-1299 system be used in ECM mode during charging. **DO NOT** connect any other battery charger to the vehicle during ECM upgrade.
- All ECM upgrades must be done with the ignition key in the 'ON' position.
- Be careful not to disconnect any cables connected to the vehicle or GDS during the ECM upgrade procedure.
- **DO NOT** start the engine during ECM upgrade.
- **DO NOT** turn the ignition key 'OFF' or interrupt the power supply during ECM upgrade.
- When the ECM upgrade is completed, turn the ignition 'OFF' and wait 10 seconds before starting the engine.
- **ONLY** use approved ECM upgrade software designated for the correct model, year.

**CAUTION**

Before attempting an ECM upgrade on any Kia model, make sure to determine whether the particular model is equipped with an immobilizer security system. Failure to follow proper procedures may cause the PCM to become inoperative after the upgrade and any claims associated with this repair may be subject to chargeback.

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**ROM ID INFORMATION TABLES:****Upgrade Event #286 (PS)**

Model	EM	TM	ISG	IMMO	ECU P/NO	ROM ID	
						Previous	New
PS Gamma 1.6GDI	ULEV	MT	X	O	39110-2BSG1	GGPS-FNU6FS00600 GGPS-FNU6FS01600 GGPS-FNU6FS02600	GGPS-FNU6FF02600
				X	39110-2BSH1	GGPS-FNU6ES00600 GGPS-FNU6ES01600 GGPS-FNU6ES02600	GGPS-FNU6EF02600
		AT		O	39110-2BSG7	GGPS-FNU6QS00C00 GGPS-FNU6QS01C00 GGPS-FNU6QS02C00	GGPS-FNU6QF02C00
				X	39110-2BSH7	GGPS-FNU6PS00C00 GGPS-FNU6PS01C00 GGPS-FNU6PS02C00	GGPS-FNU6PF02C00

*To verify the vehicle is affected, be sure to check the Calibration Identification of the vehicle's ECM ROM ID and reference the Information Table as necessary.*

**\* NOTICE**

**If performing this TSB using KDS, refer to TSB SST 037 for detailed information.**

1. Connect the power supply cable to the GDS.

**\* NOTICE**

**If attempting to perform the ECM upgrade with the power supply cable disconnected from the GDS, be sure to check that the GDS is fully charged before ECM upgrade. If the GDS is not fully charged, failure to perform the ECM upgrade may occur. Therefore, it is strongly recommended that the power supply connector be connected to the GDS.**

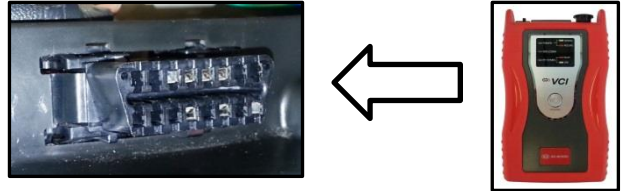
2. Connect the USB cable between the VCI and the GDS.

**\* NOTICE**

**When performing the ECM upgrade using the GDS, wireless communication between the VCI and GDS is not available. Therefore, be sure to connect the USB cable between the VCI and the GDS.**

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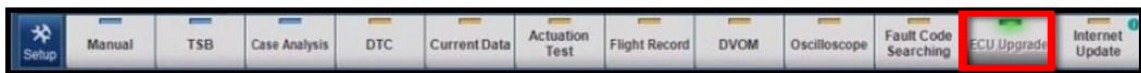
3. Connect the Main 16-pin DLC cable (GHDM – 241000) to the VCI.
4. Connect the Main 16-pin DLC cable (GHDM – 241000) to the OBD-II connector, located under the driver's side of the instrument panel.



5. With the ignition key ON, turn ON the VCI and GDS. Access the GDS vehicle identification number (VIN) screen and configure the vehicle using the **VIN AUTO DETECT** Function.
6. Select **ENGINE** system, and click **OK**.



7. Select **ECU Upgrade** from the bottom right-hand corner. Next select **Auto Mode**, and then **Engine**. Perform the ECM upgrade in accordance with normal GDS ECM upgrade procedure.



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**CAUTION**

Before attempting an ECM upgrade on any Kia model, make sure to determine whether the particular model is equipped with an immobilizer security system. Failure to follow proper procedures may cause the PCM to become inoperative after the upgrade and any claims associated with this repair may be subject to chargeback.

**\* NOTICE**

Do NOT attempt to perform a Manual Mode upgrade unless Auto Mode fails. Always follow the instructions given on the GDS in either Auto or Manual mode. See table for Manual Mode passwords.

**\*MANUAL MODE ECM UPGRADE PASSWORDS:**

**\*Do NOT perform Manual Mode ECM upgrade unless Auto Mode fails.**

**Upgrade Event #286 Soul (PS)**

Menu	Password
PS 1.6 GDI ULEV MT +IMMO/SMK : 39110-2BSG1	1021
PS 1.6 GDI ULEV MT -IMMO : 39110-2BSH1	1022
PS 1.6 GDI ULEV AT +IMMO/SMK : 39110-2BSG7	1027
PS 1.6 GDI ULEV AT -IMMO : 39110-2BSH7	1028

1. Within the ECM Upgrade screen, select **Manual Mode** in the left column, select **Engine** and then select **Upgrade Event #286**. Select the appropriate control unit part number by referring to the ROM ID Information Table on Page 3, and click **OK**.
2. Enter the appropriate password from the table above, and click **OK**.
3. Upgrade will begin and the progress of the upgrade will appear on the bar graph.
4. When the GDS reports that the ECM upgrade has been successfully completed, click **OK**, turn OFF the ignition key, and wait at least 10 seconds before attempting to start the engine.
5. Check for Diagnostic Trouble Codes using the GDS and erase any DTCs stored such as EPS, ESC, and TPMS that may have been set during reprogramming.
6. Start the engine to confirm proper operation of the vehicle.

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## AFFECTED VEHICLE PRODUCTION RANGE:

Model	Production Date Range
Soul (PS)	November 18, 2014 through May 31, 2015

## WARRANTY CLAIM INFORMATION:

Claim Type	TM	Causal P/N	Qty	N Code	C Code	Repair Description	Labor Op Code	Time	Related Parts	Qty
W	MT	39110 2BSH1	0	I3A	ZZ3	(ENG 156) ECM Upgrade	39110FA8	0.3 M/H	N/A	0
	AT	39110 2BSH7								